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FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT, JAPIO' ENTERED AT 15:58:42 ON 04 JAN 2005

L1 76374 S (INSULIN RESISTANCE)
L2 39 S L1 AND FIBRONECTIN?
L3 960 S L1 AND FIBRINOGEN?
L4 6 S L2 AND L3
L5 3 DUPLICATE REMOVE L4 (3 DUPLICATES REMOVED)

ANSWER 3 OF 3 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation. on STN
DUPLICATE 1
AN 2002:504789 BIOSIS
DN PREV200200504789
TI **Insulin resistance** is accompanied by increased von Willebrand factor levels in nondiabetic women: A study of offspring of type 2 diabetic subjects compared to offspring of nondiabetic subjects.
AU Foss, C. H. [Reprint author]; Vestbo, E.; Froland, A.; Ingerslev, J.; Gjessing, H. J.; Mogensen, C. E.; Damsgaard, E. M.
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SO Journal of Internal Medicine, (August, 2002) Vol. 252, No. 2, pp. 155-163. print.
CODEN: JINMEO. ISSN: 0954-6820.
DT Article
LA English
ED Entered STN: 25 Sep 2002
Last Updated on STN: 25 Sep 2002
AB Objectives: To examine whether levels of von Willebrand factor (vWF), **fibrinogen** and **fibronectin** are related to a parental history of type 2 diabetes and to determine possible explanatory factors for high versus low vWF and **fibrinogen**. Design: Cross-sectional study. Subjects, main outcome measures: We compared vWF, **fibrinogen** and **fibronectin** in 88 nondiabetic offspring of type 2 diabetic subjects (relatives) and 103 offspring of nondiabetic subjects (controls). Other measurements included urinary albumin excretion rate, blood pressure, lipid profile and **insulin resistance** using homostatis model assessment (HOMAIR). Results: There were no significant differences in vWF (1.12 vs. 1.06 IU mL-1, P=0.296), **fibrinogen** (3.2 vs. 3.1 g L-1; P=0.263) or **fibronectin** (0.39 vs. 0.40 g L-1, P=0.448) between relatives and controls. With multiple logistic regression we determined explanatory factors for high versus low vWF and **fibrinogen**. Age (P<0.01), urinary albumin excretion rate (P<0.05), ischaemic heart disease (IHD) (P<0.05) were found to be significant explanatory factors for vWF above the median (1.10 IU mL-1). Interaction between **insulin resistance** and sex was found. Odds ratio for high versus low **insulin resistance** was 18.39 (P<0.001) for women and 1.92 (P=0.32) for men. Body mass index (BMI) (P<0.05), sex (P<0.01), smoking status (P<0.05) and IHD (P<0.01) were significant explanatory factors for **fibrinogen** above the median (3.1 g L-1). Conclusions: Levels of vWF, **fibrinogen** and **fibronectin** were not influenced by a parental history of type 2 diabetes. **Insulin resistance** was found to be a significant risk indicator for high vWF only in women. This may indicate that **insulin resistance** is a higher risk factor for women than for men, when the outcome is endothelial dysfunction possibly resulting in overt cardiovascular disease.
CC Blood - Blood and lymph studies 15002
Metabolism - Metabolic disorders 13020
Cardiovascular system - Physiology and biochemistry 14504
Cardiovascular system - Heart pathology 14506
Cardiovascular system - Blood vessel pathology 14508
Urinary system - Physiology and biochemistry 15504
Endocrine - General 17002
Endocrine - Pancreas 17008
IT Major Concepts
Cardiovascular Medicine (Human Medicine, Medical Sciences); Clinical Endocrinology (Human Medicine, Medical Sciences)
IT Parts, Structures, & Systems of Organisms
heart: circulatory system; urine: excretory system

IT Diseases
endothelial dysfunction: vascular disease
Endothelium, Vascular: PP, physiopathology (MeSH)
IT Diseases
insulin resistance: endocrine disease/pancreas, metabolic disease
Insulin Resistance (MeSH)
IT Diseases
ischemic heart disease: heart disease
Myocardial Infarction (MeSH)
IT Diseases
type 2 diabetes: endocrine disease/pancreas, metabolic disease
Diabetes Mellitus, Non-Insulin-Dependent (MeSH)
IT Chemicals & Biochemicals
albumin; **fibrinogen; fibronectin**; insulin; von Willebrand factor
IT Miscellaneous Descriptors
blood pressure; lipid profile; urinary albumin excretion rate
ORGN Classifier
Hominidae 86215
Super Taxa
Primates; Mammalia; Vertebrata; Chordata; Animalia
Organism Name
human: adult, female, male, patient
Taxa Notes
Animals, Chordates, Humans, Mammals, Primates, Vertebrates
RN 9004-10-8 (insulin)

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